

ITB Present and Future

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Validation/Integration Today

- Ongoing cycles occur every 2-3 months to test new point releases for OSG 1.2.x
- Depending on components being updated selected VOs may be asked to participate to ensure that no new bugs have been introduced
- Software goes through one or more VTB cycles followed by ITB cycles
- VO package updates are also now being tested

Future of the ITB

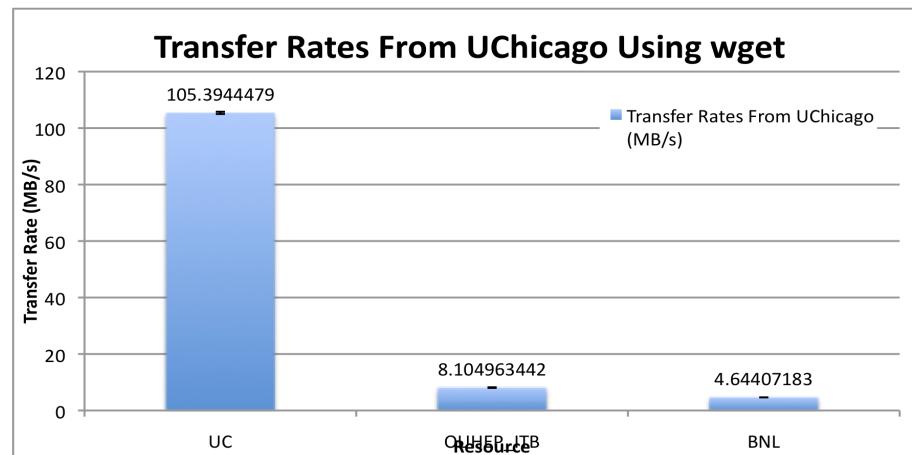
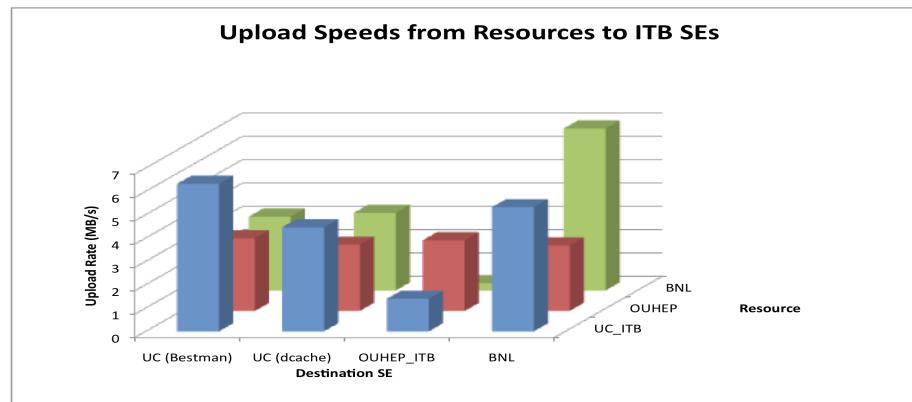
- Allow more ad-hoc testing / easier testing
 - ITB Robot testing infrastructure
 - Increase ease of testing
 - More automation so that coverage is increased
- Better communication and feedback
 - Formalizing changes
 - Better communication on changes with end users and resources

ITB Robot Infrastructure

- Infrastructure to allow semi-automated testing of ITB resources currently
- Work done in conjunction between the ITB group and Maxim Potekhin and Jose Callabero
- May be extended to automated testing
- Utilizes the ATLAS PanDA framework to allow admins to send validation jobs to queues defined for their resources
- Currently have 5 operational resources with 3 other resources being added

ITB Robot Testing

- Variety of validation jobs defined (check various storage areas, basic workflow simulations)
- New validation types can be added easily
- A framework for collecting statistics on validation jobs defined and being improved on
- Will be used to help validate new ITB releases
- Information from validation captured and can be used to generate records of validation activity and to ensure components being tested have been properly exercised



ITB Monitoring Page

Recent pilots accepting BNL_ITB_Test1 Panda jobs

<http://panda.cern.ch:25880/server/pandamon/query?tp=pilots&a...>

Conf generation [Update](#)

Panda monitor Times are in UTC

[Panda info and help](#)

[Jobs - search](#)
 Status: [running](#) [defined](#) [waiting](#) [assigned](#) [submitted](#) [finished](#) [failed](#)
[Types: \[analysis\]\(#\) \[condor\]\(#\) \[batch\]\(#\) \[test\]\(#\)](#)

[Quick search](#)

[Job](#) [Dataset](#) [Task request](#) [Task status](#) [File](#)

[Summaries](#)
 Blocks: 1 days Errors: 0 days Nodes: 1 3 days Usage 1 3 days

[Tasks - search](#)
[Analysis Task Req](#) [Condor Task Req](#) [CfBatch Task Req](#) [Task list](#) [New Job](#) [Batch Request](#) [Task overview query](#)

[Datasets - search](#)
[Pending datasets](#) [Aborted datasets](#) [Datasets Browser](#)

[Datasets Distribution](#)
[Data Transfer Request](#) [Data Requests for AODs](#) [EVNTs](#) [Conditions DS](#) [DB Requests](#) [SII Requests](#) [Validation Samples](#) [Functional Samples](#) [ATLAS Data](#) [Recommended Datasets](#)

[Logging monitor](#)

Recent pilots accepting BNL_ITB_Test1 Panda jobs

Not logged in. [List users](#)

GSTAT YOUT GridView GOC

[AutoPlot main page](#)

Selections: Accepting type=BNL_ITB_Test1

Queues serving the BNL_ITB_Test1 Panda site: [BNL_ITB_Test1_condor](#) nqueue=4 [BNL_OSG_1](#) nqueue=10

Scheduler services serving this site:
 Last mod-time since last heard from. Cycle-time to execute one monitoring/scheduling cycle.

ID	Host	User	Conf generation	PID	Status	Last mod	Cycle
274	gridif07.usfnlqa.lnf.gov	sm	-queue=BNL_ITB_Test1-condor -pondsize=BNL_ITB_Test1 -pilot=trivial	25446	running	0'	0.2'

Pilot states: submitted: 4 done: 44 done aborted: 1

Recent pilots: Number of pilots: 49

PilotID	Type	Accepts	Queue	Tstart	Tlate	State	Status	Err	ErrorInfo	Trun	Tjob	Tchk
te_gridif07_27230_20100305-222162_138	trivial	BNL_ITB_Test1	condor	5'	5'	submitted	active				5'	
te_gridif07_27230_20100305-222336_137	trivial	BNL_ITB_Test1	condor	7'	7'	submitted	active				7'	
te_gridif07_27230_20100305-222313_136	trivial	BNL_ITB_Test1	condor	8'	8'	submitted	active				8'	
te_gridif07_27230_20100305-222214_135	trivial	BNL_ITB_Test1	condor	9'	9'	submitted	active				9'	
te_gridif07_27230_20100305-221904_134	trivial	BNL_ITB_Test1	condor	12'	5'	done	finished	Dispatcher has no jobs			7'	
te_gridif07_27230_20100305-221825_133	trivial	BNL_ITB_Test1	condor	13'	8'	done	finished	Dispatcher has no jobs			4'	
te_gridif07_27230_20100305-221051_132	trivial	BNL_ITB_Test1	condor	20'	9'	done	finished	Dispatcher has no jobs			11'	
te_gridif07_27230_20100305-220940_131	trivial	BNL_ITB_Test1	condor	21'	8'	done	finished	Dispatcher has no jobs			13'	
te_gridif07_27230_20100305-215852_130	trivial	BNL_ITB_Test1	condor	32'	22'	done	finished	Dispatcher has no jobs			10'	
te_gridif07_27230_20100305-215845_129	trivial	BNL_ITB_Test1	condor	32'	12'	done	finished	Dispatcher has no jobs			20'	
te_gridif07_27230_20100305-214459_128	trivial	BNL_ITB_Test1	condor	34'	13'	done	finished	Dispatcher has no jobs			23'	
te_gridif07_27230_20100305-215328_127	trivial	BNL_ITB_Test1	condor	38'	20'	done	finished	Dispatcher has no jobs			17'	
te_gridif07_27230_20100305-214124_126	trivial	BNL_ITB_Test1	condor	50'	37'	done	finished	Dispatcher has no jobs			13'	
te_gridif07_27230_20100305-214029_125	trivial	BNL_ITB_Test1	condor	51'	32'	done	finished	Dispatcher has no jobs			18'	
te_gridif07_27230_20100305-213939_124	trivial	BNL_ITB_Test1	condor	51'	38'	done	finished	Dispatcher has no jobs			13'	
te_gridif07_27230_20100305-213839_123	trivial	BNL_ITB_Test1	condor	52'	32'	done	finished	Dispatcher has no jobs			20'	
te_gridif07_27230_20100305-212723_122	trivial	BNL_ITB_Test1	condor	63'	50'	done	finished	Dispatcher has no jobs			13'	
te_gridif07_27230_20100305-212714_121	trivial	BNL_ITB_Test1	condor	64'	51'	done	finished	Dispatcher has no jobs			13'	
te_gridif07_27230_20100305-212713_120	trivial	BNL_ITB_Test1	condor	64'	51'	done	finished	Dispatcher has no jobs			12'	
te_gridif07_27230_20100305-212607_119	trivial	BNL_ITB_Test1	condor	65'	52'	done	finished	Dispatcher has no jobs			12'	
te_gridif07_27230_20100305-211741_118	trivial	BNL_ITB_Test1	condor	73'	63'	done	finished	Dispatcher has no jobs			10'	

Formalizing Software Changes

- Currently only covers changes to configures osg
- RFCs sent to integration and sites list, feedback is obtained and incorporated into RFC
- In the initial stages of this process, but the Software Team is examining using a similar process for other software changes as well as for new OSG releases
 - Will replace the RFC process

More Information

- ITB Robot
 - <https://twiki.grid.iu.edu/bin/view/Integration/ITBTestingFramework>
 - <http://www.usatlas.bnl.gov/twiki/bin/view/AtlasSoftware/PandaITB>
- Software Changes
 - <https://twiki.grid.iu.edu/bin/view/Integration/RFCs>
 - <https://twiki.grid.iu.edu/bin/view/SoftwareTeam/SEPIndex>